Instructions for filling out DEP7007N

SECTION I. Emissions Unit and Emission Point Information

Emission Unit and Emission Point Descriptions

KyEIS ID # for Emission Unit	Enter the KyEIS ID number for the emission unit if known. Otherwise enter a unique 3-character code to identify the emission unit within the plant.
Emission Unit Name	Enter the name or a description of the emission unit. Include the heat input capacity (in MMBtu/hr) for boilers.
Date Constructed	Enter the date the emission unit was constructed, re-constructed, altered, or modified.
HAPs present? (Y/N)	Enter Y if any Hazardous Air Pollutants are emitted at any emission point in this emission unit.
KyEIS ID # for Emission Point	Enter the KyEIS ID number for the emission point if known. Otherwise number the emission points in consecutive order within the emission unit.
Emission Point Name	Enter the name or a description of the emission point process. Include the descriptor "fugitive" for processes that are fugitive emissions.
Source ID	Enter the source emission point or process ID number and/or equipment number.
SCC Code	Enter the Source Classification Code. The division has lists of these codes if you need them.
SCC Units	Enter the process operating rate units for the equation. Each SCC code has an assigned unit, but you may choose to use another unit that is more appropriate to your process. Please underline the units if you are choosing an alternate unit.
Stack #	Enter the number of the stack as listed in Section II of this form through which the emissions generated at this emission point enter the atmosphere.
Fuel Ash Content *(Enter only for combustion sources)*	Enter the ash content of the fuel combusted in the process as a weight percentage only if the emission factor is dependent on the ash content of the fuel.
Fuel Sulfur Content *(Enter only for combustion sources)*	Enter the sulfur content of the fuel combusted in the process as a weight percentage only if the emission factor is dependent on the sulfur content of the fuel.
Fuel Heat Content Ratio *(Enter only for combustion sources)*	Enter the ratio of the actual fuel heat content to the fuel heat content used in AP-42 for calculating emissions. Enter 1 if the fuel heat content is the same as that used in AP-42.
Applicable Regulations	Enter the any state or federal regulations that apply to the emission unit and/or to the emission point.
Maximum Operating Parameters	
Hourly Operating Rate (SCC Units/hr)	Enter the maximum hourly operating rate of the emission point in SCC Units per hour based on raw material usage and production rated capacities of the equipment.
Annual Operating Hours (hrs/yr)	Enter the maximum number of hours per year the emission point process can operate.
Permitted Operating Parameters	
Hourly Operating Rate (SCC Units/hr)	Enter any federally-enforceable permit limit on the hourly operating rate of the emission point in SCC Units per hour.
Annual Operating Rate (SCC Units/yr)	Enter any federally-enforceable permit limit on the annual operating rate of the emission point.
Annual Operating Hours (hrs/yr)	Enter any federally-enforceable permit limit on the number of hours per year the process can operate.
Emission Factors	
Pollutant	Enter the name of the pollutant. Include CAS numbers for Hazardous Air Pollutants.
Emission Factor (lb/SCC Units)	Enter the emission factor for the pollutant in terms of lb of pollutant emitted per SCC Unit.
Emission Factor Basis	Enter the basis for the emission factor. Examples are: Source Stack Test, Material Balance, AP-42 (include chapter or table) or other publication of standard emission factors, Engineering Estimate.
Control Equipment	
Collection Efficiency (%)	Enter the effective collection efficiency with which the pollutants are collected at the emission source before being sent to the control device.
Pollutant Overall Efficiency (%)	Enter the overall control efficiency for the pollutant considering collection and control efficiencies for all control devices associated with this emission point. This may be different than the efficiency entered in Section III if there is more than one control device or the collection efficiency is other than 100%.
Hourly and Annual Emissions	
Hourly Uncontrolled Unlimited Potential Emissions	Electronic versions of this form should contain a formula in this field to calculate the potential emissions of the process unit with no control devices and no permit limits on operating rate. The emissions can be manually calculated and entered in this form using the following formula: *=Maximum Operating Rate (SCC Units/hr) x Emission Factor (lb/SCC Units)*
Hourly Controlled Limited Potential Emissions	Electronic versions of this form should contain a formula in this field to calculate the potential emissions of the process unit considering control devices and limits on operating rate that are included in permits. The emissions can be manually calculated and entered in this form using the following formula: *=Permitted (or Maximum if no permit limit) Operating Rate (SCC Units/hr) x Emission Factor (lb/SCC Units) x (1-Pollutant Overall Control Efficiency)*
Hourly Allowable	Enter any permit limit on the hourly emission rate of the pollutant from the emission point. If the permit limit is not in lb/hr, convert the allowable to lb/hr and enter.
Annual Uncontrolled Unlimited Potential Emissions	Electronic versions of this form should contain a formula in this field to calculate the potential emissions of the process unit with no control devices and no permit limits on operating rate. The emissions can be manually calculated and entered in this form using the following formula: *=Maximum Operating Rate (SCC Units/hr) x Emission Factor (lb/SCC Units) x Maximum Operating Hours (hr/yr) x 1 ton/2000 lb*

Annual Controlled Limited Potential Emissions

Electronic versions of this form should contain a formula in this field to calculate the potential emissions of the process unit with control devices and limits on operating rate that are included in permits. The emissions can be manually calculated and entered in this form using one of the following formulas:
=Permitted (or Maximum if no permit limit) Operating Rate (SCC Units/hr) x Emission Factor (lb/SCC Units) x (1-Pollutant Control Efficiency) x Permitted (or Maximum if no permit limit) Operating Hours (hr/yr) x 1 ton/2000 lb
or
=Permitted Annual Operating Rate (SCC Units/yr) x Emission Factor (lb/SCC Units) x (1-Pollutant Overall Control Efficiency) x 1 ton/2000 lb

Annual Allowable

Enter any permit limit on the annual emission rate of the pollutant from the emission point. If the permit limit is not in tons/yr, convert the allowable to tons/yr and enter.

SECTION II. Stack Information

Stack Physical Information

KyEIS ID

Enter the Stack ID as listed in the KyEIS if known. If not known, enter a unique number (up to 4 digits) to identify the stack within the plant.

Stack Description

Enter a description of the stack including associated emission point ID numbers (up to 25 characters)

Stack Height

Enter the vertical distance between the point of discharge and the ground, when it can be identified. If no definable stack height exists, enter a value of zero and supply a value for vent height.

Stack Diameter

Enter the inside diameter of a round gas exit point of emission, measured in feet. If the exit is not round, calculate D = 1.128 square root of A; where A = cross-sectional area in square feet and D = equivalent diameter. If the stack is rectangular, specify the dimensions. If no definable stack height exists, enter N/A (Not Applicable).

Vent Height

Enter an estimate of the height at which pollutants are released when no definable stack height exists.

Vertical Coordinate

Enter the vertical (northing) UTM or longitude coordinate for the point of discharge. The UTM coordinate must be within range for the UTM zone entered for the plant. The longitude coordinate must fall within range for the state.

Horizontal Coordinate

Enter the horizontal (easting) UTM or latitude coordinate for the point of discharge. The UTM coordinate must be within range for the UTM zone entered for the plant. The latitude coordinate must fall within range for the state.

Coordinate Collection Method Code

Enter the code for the method used for collection UTM or lat/long cooordinates. Use a method and code from the following list:

ADD	Street Segment Geocoding
DOQ	Digital Ortho Image Verified
DRG	Digital Raster Graphic Verified
GP1	Digital GPS +/- 1 meter
G10	Digital GPS +/- 10 meters
G40	GPS Point Average +/- 40 meters
G90	GPS +/- 90 meters
INI	Map Interpolation
SUR	Survey
ZIP	Zip Centroid Geocoding
ZC2	Zip+2 Centroid Geocoding
ZC4	Zip+4 Centroid Geocoding

Stack Gas Stream Data

Flowrate

Enter the total volume of exhaust gas released at the operating temperature and normal atmosphere pressure.

Temperature

Enter the temperature of the exhaust stream at the stack exit, under normal operating conditions.

Exit Velocity

Enter the exhaust gas velocity for the stack. If the actual measurement is not available, use the design or maximum value.

SECTION III. Control Equipment Information

KyEIS ID

Enter the KyEIS Control Equipment ID if known. If not known, enter a unique number to identify the equipment within the plant.

Control Equipment Description

A brief description (up to 40 characters) of the control equipment.

Manufacturer

The manufacturer of the control equipment.

Model Name and Number

The manufacturer's model name and/or number of the control equipment.

Date Installed

The installation date of the control equipment.

Cost

The installation costs of the control equipment.

Inlet Gas Stream Data

Enter the requested information about the gas stream entering the control device.

Equipment Physical Data

Enter the requested information about the control equipment. Submit this form for each control device even if the control equipment manufacturer's equipment specifications and recommended operating procedures are submitted in place of filling out this part of the form.

Equipment Operational Data

Enter the requested information about the operation of the control device, including listing each pollutant that can be controlled by the device and the control efficiency for removing that pollutant from the emission stream as a weight percentage.